



## Gulf of Mexico Harmful Algal Bloom Bulletin

12 April 2007

NOAA Ocean Service

NOAA Satellites and Information Service

Last bulletin: April 9, 2007

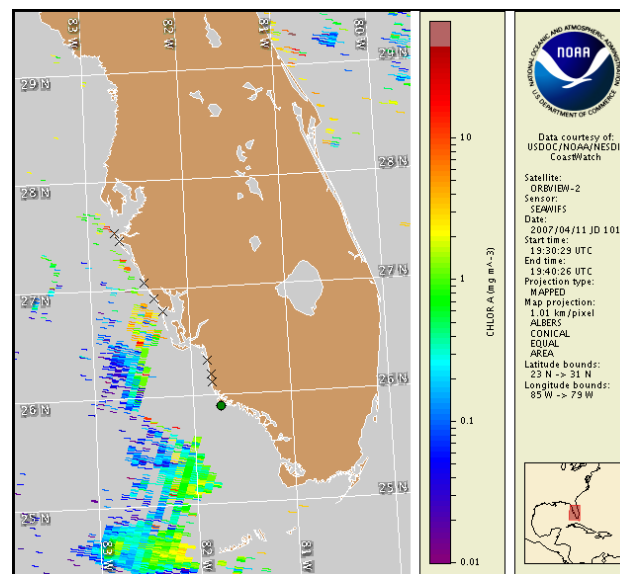
### Conditions Report

There is no indication of harmful algal bloom presence alongshore Southwest Florida, including the Keys region, at the present time. No impacts are expected in any Florida County through Sunday.

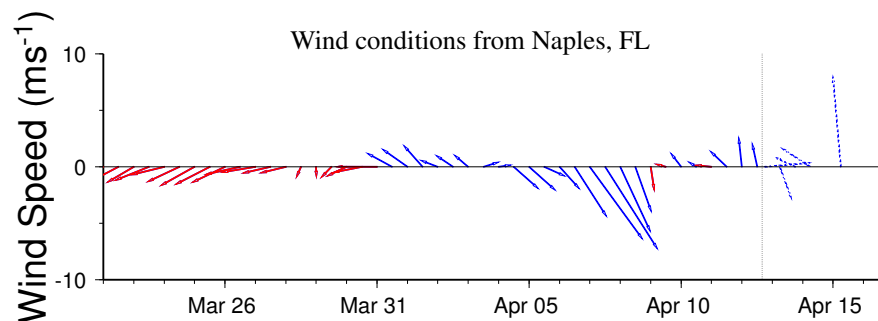
### Analysis

With the exception of background concentrations identified at south Marco Island Beach, Collier County on 4/9 (FWRI), no *Karenia brevis* has been identified alongshore Southwest Florida or in the Keys over the past two weeks (FWRI, MML). Significant cloud cover over the past few days limits analysis of recent satellite imagery. Elevated chlorophyll features identified in the previous bulletin may have transposed northward approximately 15-20km since 4/8 based on results of a NOAA wind transport model. Southeastern and southerly winds expected Friday and Saturday may transport recently identified features closer to shore in the Sanibel Island and Cape Romano regions of southern Lee and southern Collier Counties. Sampling is recommended. Strong northwesterlies and northerlies expected on Sunday and Monday will promote southward movement of the features and possibly increase the potential for intensification in these specific regions early next week.

~Fisher, Allen



Satellite chlorophyll image with possible HAB areas shown by red polygon(s). Cell concentration sampling data from April 2-10 shown as red squares (high), red triangles (medium), red diamonds (low b), red circles (low a), orange circles (very low b), yellow circles (very low a), green circles (present), and black "X" (not present). For a list of cell count data providers and a key to the cell concentration categories, please see the HABFS bulletin guide: [http://www.csc.noaa.gov/crs/habf/habfs\\_bulletin\\_guide.pdf](http://www.csc.noaa.gov/crs/habf/habfs_bulletin_guide.pdf)



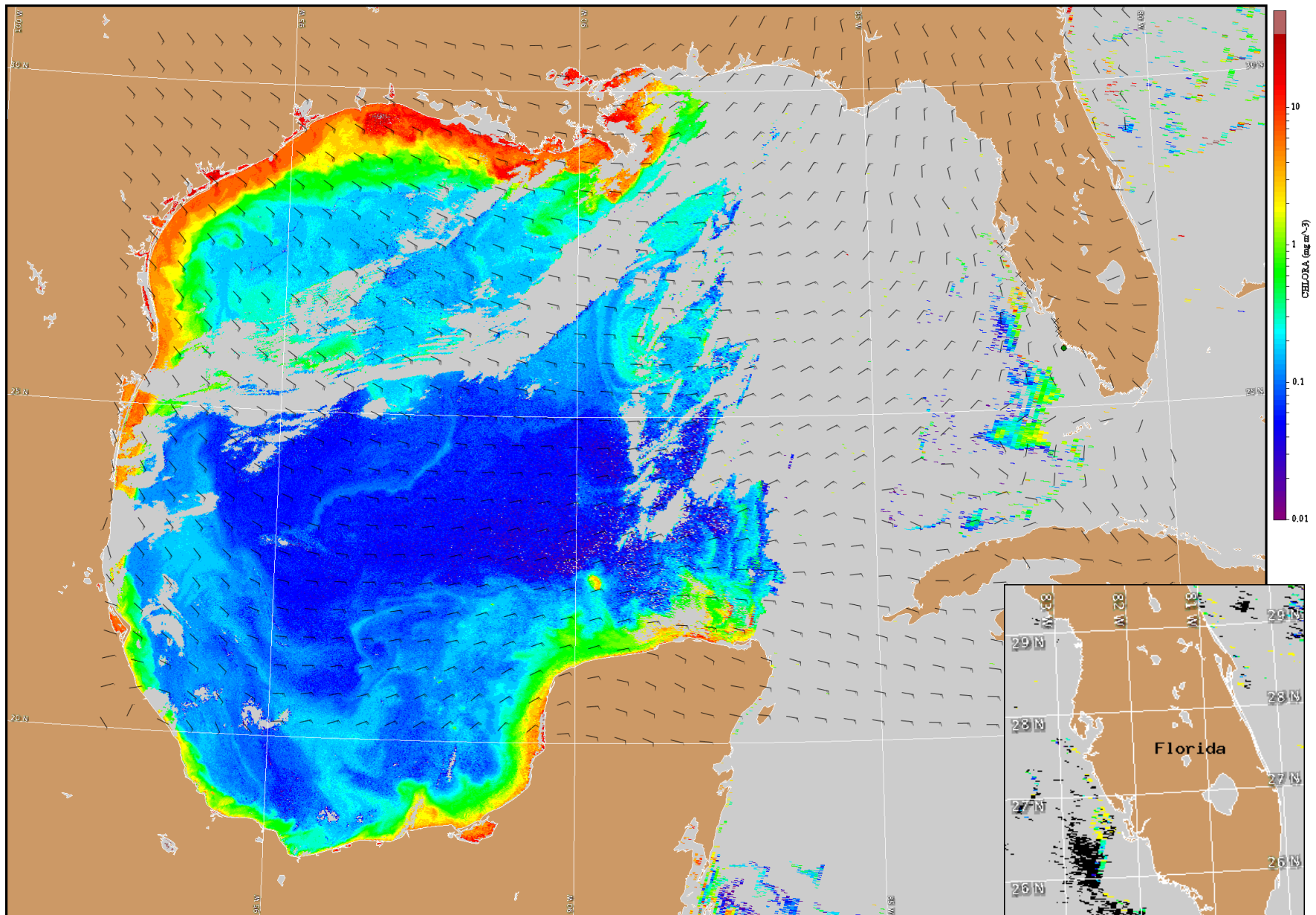
Wind speed and direction are averaged over 12 hours from buoy measurements. Length of line indicates speed; angle indicates direction. Red indicates that the wind direction favors upwelling near the coast. Values to the left of the dotted vertical line are measured values; values to the right are forecasts.

SW Florida: Southwest winds today (5-10kts, 3-5m/s), shifting northwesterly then northeasterly (10-15kts, 5-8m/s) by tonight. Southeast winds Friday (10-15kts). Southerly winds Saturday (15kts) increasing to 20kts (10m/s) Saturday night. Northwest winds Sunday (20kts). North winds Monday (20kts).

Florida Keys: Northwesterly winds today (10kts, 5m/s) becoming variable tonight. Easterly winds Friday (10kts), shifting to the southeast into Saturday (10-15kts, 5-8m/s). Southwesterly winds Sunday (15kts, 8m/s) shifting to the northwest and becoming gusty Sunday night.

Please note the following restrictions on all SeaWiFS imagery derived from CoastWatch.

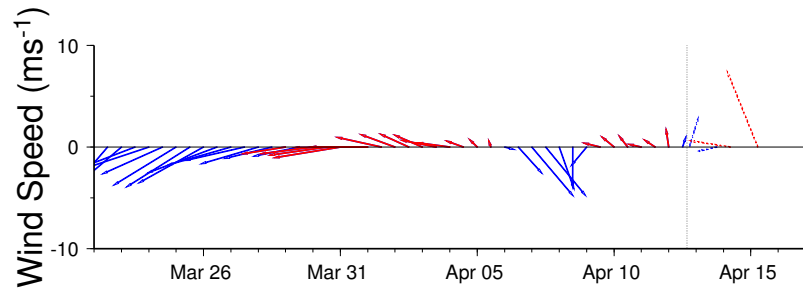
1. Data are restricted to civil marine applications only; i.e. federal, state, and local government use/distribution is permitted.
2. Image products may be published in newspapers. Any other publishing arrangements must receive GeoEye approval via the CoastWatch Program.



Satellite chlorophyll image and forecast winds for April 13, 2007 06Z with cell concentration sampling data from April 2-10 shown as red squares (high), red triangles (medium), red diamonds (low b), red circles (low a), orange circles (very low b), yellow circles (very low a), green circles (present), and black "X" (not present). For a list of cell count data providers and a key to the cell concentration categories, please see the HABFS bulletin guide: [http://www.csc.noaa.gov/crs/habf/habfs\\_bulletin\\_guide.pdf](http://www.csc.noaa.gov/crs/habf/habfs_bulletin_guide.pdf)

Verified HAB areas shown in red. Other bloom areas shown in yellow (see p. 1 analysis for interpretation).

Wind conditions from Vaca Key, FL



Wind conditions from Venice Pier, FL

